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# Gulf EP Lubricant HD 220

*Heavy Duty Industrial Gear Oil*

## Product Description:

**Gulf EP Lubricant HD 220** is a high performance extreme pressure gear oil developed for the lubrication of heavy duty industrial gears working under severe operating conditions and is blended from high quality base stocks and sulphur-phosphorous type extreme pressure additives that gives excellent load carrying capability to provide protection against shock loading and wear.

The high thermo-oxidative stability of **Gulf EP Lubricant HD 220** helps resist high temperature deposit formation and oil thickening. In addition, **Gulf EP Lubricant HD 220** also possesses excellent water separation characteristics and offers resistance to foaming.

**Gulf EP Lubricant HD 220** has excellent load carrying capability protects gears against scuffing and wear and offers long equipment life and reduced maintenance costs. High thermo-oxidative stability helps to resist deposit formation, provides enhanced system cleanliness and enables longer service intervals. **Gulf EP Lubricant HD 220** provides effective rust and corrosion protection to all gearbox components and the excellent demulsibility properties enables trouble-free operation in conditions encountering water/moisture.

**Gulf EP Lubricant HD 220** is applicable in a wide range of industrial spur, helical, bevel and steel-on-steel worm gears, in heavy-duty industrial enclosed gears operating under heavy or shock loading conditions and requiring extreme pressure performance, in journal and roller contact industrial bearings operating at low speeds and high loads and is suitable for splash, mist and circulating systems and suitable for marine gear applications.

## Meets the specifications of:

ISO 12925-1 Enclosed Gears of Category CKC  
DIN 51517 Part 3 – Lubricating Oils CLP  
AGMA 9005-E02 – Extreme Pressure Gear Lubricants  
David Brown S1.53 101 (E – Industrial Extreme Pressure Additive Oils)  
AIST (US Steel) Requirements No. 224 Lead Free EP Gear Oil

<u>Properties:</u>	<u>Test Methods:</u>	<u>Typical Values:</u>
ISO Viscosity Grade	ISO 3448	220
Density @ 15°C	ASTM D4052	900 kg/m <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D445	198 – 242 mm <sup>2</sup> /s (cSt)
Viscosity Index	ASTM D2270	>95
Flash Point	ASTM D92	>210°C
Pour Point	ASTM D97	<-21°C
FZG A/8.3/90, Load Stage Fail	DIN 51354-2	>12
Rust Test	ASTM D665A/B	Pass
Copper Corrosion	ASTM D130	1a
Water Separability @ 82°C	ASTM D1401	Pass

Product Code: 2611	Date Issued: 05/07/2012	Date Superseded: 23/12/2011	Revision nr: 02
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